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L5: Entry 1 of 1

File: JPAB

Feb 22, 2000

PUB-NO: JP02000050877A

DOCUMENT-IDENTIFIER: JP 2000050877 A

TITLE: TRANSCRIPTION FACTOR WHICH REGULATES EXPRESSION OF ETHYLENE-INDUCING GENE CLUSTER

PUBN-DATE: February 22, 2000

INVENTOR-INFORMATION:

NAME

COUNTRY

KOSUGI, SHUNICHI

N/A

OHASHI, YUKO

N/A

INT-CL (IPC): C12N 15/09; A01H 1/00; C07K 14/47; C12N 5/10; C12P 21/02

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a new transcription factor which regulates expression of an ethylene-inducing gene cluster, has a specifically binding activity to a specific consensus sequence, and gives a plant resistance against various environmental stresses by transfecting the gene.

SOLUTION: This is a new transcription factor which regulates expression of an ethylene-inducing gene cluster which has the amino acid sequence shown by the formula, has a specifically binding activity to the consensus sequence: A(T/C)G(A/T)A(C/T)CT, and can be used, for example, for giving a plant resistance against various environmental stresses (e.g. pathogen infection and wound stress) by transfecting the gene and for screening the transcription factor. This transcription factor is obtained by screening an expression library derived from a plant cell using, as a probe, an oligonucleotide containing the above-mentioned consensus sequence which was directly radio-labelled, inserting the obtained gene to a plant expression vector, followed by expressing the obtained vector in a host plant cell.

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| Full | Title | CIT.1 | REV.1 | CLS.1 | REF.1 | DRAW.1 |
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L6: Entry 1 of 4

File: USPT

Jan 2, 2001

US-PAT-NO: 6168919

DOCUMENT-IDENTIFIER: US 6168919 B1

TITLE: Screening methods for enzymes and enzyme kits

DATE-ISSUED: January 2, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------|-----------|-------|----------|---------|
| Short; Jay M. | Encinitas | CA | N/A | N/A |

US-CL-CURRENT: 435/6; 435/183, 435/252.3, 435/320.1, 435/325, 435/4, 435/91.1,
435/91.4, 435/91.41, 536/23.1, 536/23.2, 536/23.4

ABSTRACT:

Recombinant enzyme libraries and kits where a plurality of enzymes are each characterized by different physical and/or chemical characteristics and classified by common characteristics. The characteristics are determined by screening of recombinant enzymes expressed by a DNA library produced from various microorganisms. Also disclosed is a process for identifying clones of a recombinant library which express a protein with a desired activity by screening a library of expression clones randomly produced from DNA of at least one microorganism, said screening being effected on expression products of said clones to thereby identify clones which express a protein with a desired activity. Also disclosed is a process of screening clones having DNA from an uncultivated microorganism for a specified protein activity by screening for a specified protein activity in a library of clones prepared by (i) recovering DNA from a DNA population derived from at least one uncultivated microorganism; and (ii) transforming a host with recovered DNA to produce a library of clones which is screened for the specified protein activity.

9 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 6

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
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☐ 2. Document ID: US 5958672 A

L6: Entry 2 of 4

File: USPT

Sep 28, 1999

US-PAT-NO.: 5958672

DOCUMENT-IDENTIFIER: US 5958672 A

TITLE: Protein activity screening of clones having DNA from uncultivated microorganisms

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------|-----------|-------|----------|---------|
| Short; Jay M. | Encinitas | CA | N/A | N/A |

US-CL-CURRENT: 435/4; 435/183, 435/69.1, 536/23.1, 536/23.2

ABSTRACT:

Disclosed is a process of screening clones having DNA from an uncultivated microorganism for a specified protein, e.g. enzyme, activity by screening for a specified protein, e.g. enzyme, activity in a library of clones prepared by (i) recovering DNA from a DNA population derived from at least one uncultivated microorganism; and (ii) transforming a host with recovered DNA to produce a library of clones which is screened for the specified protein, e.g., enzyme, activity.

15 Claims, 5 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
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3. Document ID: US 5955269 A

L6: Entry 3 of 4

File: USPT

Sep 21, 1999

US-PAT-NO: 5955269

DOCUMENT-IDENTIFIER: US 5955269 A

TITLE: Methods of screening foods for nutraceuticals

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|----------------|-------|----------|---------|
| Ghai; Geetha | Murray Hill | NJ | N/A | N/A |
| Boyd; Charles | New Brunswick | NJ | N/A | N/A |
| Csiszar; Katalin | New Brunswick | NJ | N/A | N/A |
| Ho; Chi-Tang | East Brunswick | NJ | N/A | N/A |
| Rosen; Robert T. | Pottersville | NJ | N/A | N/A |

US-CL-CURRENT: 435/6; 426/478, 435/4, 435/91.2

ABSTRACT:

The invention relates to an assay system for screening nutraceuticals, i.e., foods or food substances that occur naturally, or that are produced during processing which are capable of modulating in a subject the expression of one or more genes associated with a disease or undesirable physical condition. The nutraceuticals identified by the screening assays can be incorporated into compositions which may be administered to a subject to treat or prevent a disease or undesirable condition, or otherwise to improve the health of the subject. The invention further provides methods for modifying the amount of nutraceuticals in raw and processed foods or food substances.

43 Claims, 0 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 1

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | MMIC | Draw Desc | Image |
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 4. Document ID: US 5939250 A

L6: Entry 4 of 4

File: USPT

Aug 17, 1999

US-PAT-NO: 5939250

DOCUMENT-IDENTIFIER: US 5939250 A

TITLE: Production of enzymes having desired activities by mutagenesis

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------|-----------|-------|----------|---------|
| Short; Jay M. | Encinitas | CA | N/A | N/A |

US-CL-CURRENT: 435/4; 435/183, 435/69.1, 536/23.1, 536/23.2

ABSTRACT:

Disclosed is a process for obtaining an enzyme having a specified enzyme activity derived from a heterogeneous DNA population by screening, for the specified enzyme activity, a library of clones containing DNA from the heterogeneous DNA population which have been exposed to directed mutagenesis towards production of the specified enzyme activity. Also disclosed is a process for obtaining an enzyme having a specified enzyme activity by screening, for the specified enzyme activity, a library of clones containing DNA from a pool of DNA populations which have been exposed to directed mutagenesis in an attempt to produce in the library of clones DNA encoding an enzyme having one or more desired characteristics which can be the same or different from the specified enzyme activity.

12 Claims, 0 Drawing figures Exemplary Claim Number: 1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWC | Draw Desc | Image |
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L4: Entry 41 of 63

File: USPT

Mar 16, 1999

US-PAT-NO: 5882885

DOCUMENT-IDENTIFIER: US 5882885 A

TITLE: Glycogen phosphorylase

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------------|------------|-------|----------|---------|
| Burnham; Martin Karl Russel | Norristown | PA | N/A | N/A |

US-CL-CURRENT: 435/69.1; 435/243, 435/252.3, 435/254.11, 435/320.1, 435/325,
435/69.3, 435/70.1, 435/71.1, 435/71.2, 536/23.1, 536/23.2, 536/23.7, 536/24.32

ABSTRACT:

The invention provides glycogen phosphorylase polypeptides and DNA (RNA) encoding glycogen phosphorylase polypeptides and methods for producing such polypeptides by recombinant techniques. Also provided are methods for utilizing glycogen phosphorylase polypeptides to screen for antibacterial compounds.

9 Claims, 0 Drawing figures Exemplary Claim Number: 1

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWC | Draw Desc | Image |
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☐ **42. Document ID: US 5861281 A**

L4: Entry 42 of 63

File: USPT

Jan 19, 1999

US-PAT-NO: 5861281
DOCUMENT-IDENTIFIER: US 5861281 A

TITLE: Lacc

DATE-ISSUED: January 19, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|--------------|-------|----------|---------|
| Brown; James Raymond | Berwyn | PA | N/A | N/A |
| Zalacain; Magdalena | West Chester | PA | N/A | N/A |

US-CL-CURRENT: 435/69.1; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/70.1,
435/71.1, 536/23.1, 536/23.2, 536/23.7

ABSTRACT:

The invention provides lacC polypeptides and DNA (RNA) encoding lacC polypeptides and methods for producing such polypeptides by recombinant techniques. Also provided are methods for utilizing lacC polypeptides to screen for antibacterial compounds.

8 Claims, 0 Drawing figures Exemplary Claim Number: 1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMAC | Draw Desc | Image |
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☐ 43. Document ID: US 5859351 A

L4: Entry 43 of 63

File: USPT

Jan 12, 1999

US-PAT-NO: 5859351
DOCUMENT-IDENTIFIER: US 5859351 A

TITLE: Prf protein and nucleic acid sequences: compositions and methods for plant pathogen resistance

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|---------------|-------|----------|---------|
| Staskawicz; Brian S. | Castro Valley | CA | N/A | N/A |
| Oldroyd; Giles Edward | San Francisco | CA | N/A | N/A |
| Salmeron; John M. | Hillsborough | NC | N/A | N/A |
| Rommens; Caius | Chesterfield | MO | N/A | N/A |

US-CL-CURRENT: 800/301; 435/320.1, 435/419, 435/468, 536/23.6, 536/24.3, 800/278

ABSTRACT:

The Prf gene of tomato has been cloned and analyzed. Prf encodes a protein with leucine-rich repeat, nucleotide binding, and leucine zipper motifs, identifying it as a member of the resistance gene class that includes RPS2, RPM1, N and L6. When expressed in transgenic plants, Prf confers Fenthion sensitivity and resistance to a wide variety of phytopathogens, including not only Pseudomonas syringae but also unrelated pathogens such as Xanthomonas campestris.

25 Claims, 22 Drawing figures Exemplary Claim Number: 10,14,18
Number of Drawing Sheets: 34

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
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☐ 44. Document ID: US 5858786 A

L4: Entry 44 of 63

File: USPT

Jan 12, 1999

US-PAT-NO: 5858786

DOCUMENT-IDENTIFIER: US 5858786 A

TITLE: *Pseudomonas syringae* pv *Syringae* hrpZ gene

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|-----------|-------|----------|---------|
| Collmer; Alan | Ithaca | NY | N/A | N/A |
| He; Sheng-Yang | Lexington | KY | N/A | N/A |

US-CL-CURRENT: 800/298; 435/252.3, 435/320.1, 435/325, 435/418, 435/69.1, 435/71.2, 435/874, 536/23.1, 536/23.7, 800/301

ABSTRACT:

The nucleic acid and amino acid sequences for proteinaceous elicitors of the plant defense reaction known as the hypersensitive response against *Pseudomonas syringae* are described along with method for preparation.

30 Claims, 8 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 4

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
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☐ 45. Document ID: US 5844084 A

L4: Entry 45 of 63

File: USPT

Dec 1, 1998

US-PAT-NO: 5844084

DOCUMENT-IDENTIFIER: US 5844084 A

TITLE: Chemokine expressed in inflamed adenoid

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|-----------------|-------|----------|---------|
| Guegler; Karl J. | Menlo Park | CA | N/A | N/A |
| Hawkins; Phillip R. | Mountain View | CA | N/A | N/A |
| Wilde; Craig G. | Sunnyvale | CA | N/A | N/A |
| Seilhamer; Jeffrey J. | Los Altos Hills | CA | N/A | N/A |

US-CL-CURRENT: 530/351; 435/252.3, 435/320.1, 435/325, 435/69.5, 435/71.2,
536/23.5, 930/140

ABSTRACT:

The present invention provides nucleotide and amino acid sequences that identify and encode a novel expressed chemokine (ADEC) from inflamed adenoid tissue. The present invention also provides for antisense molecules to the nucleotide sequences which encode ADEC, expression vectors for the production of purified ADEC, antibodies capable of binding specifically to ADEC, hybridization probes or oligonucleotides for the detection of ADEC-encoding nucleotide sequences, genetically engineered host cells for the expression of ADEC, diagnostic tests for inflammation or disease based on ADEC-encoding nucleic acid molecules or antibodies capable of binding specifically to ADEC.

1 Claims, 5 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 4

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
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 46. Document ID: US 5824485 A

L4: Entry 46 of 63

File: USPT

Oct 20, 1998

US-PAT-NO: 5824485

DOCUMENT-IDENTIFIER: US 5824485 A

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------|-------|----------|---------|
| Thompson; Katie A. | Del Mar | CA | N/A | N/A |
| Foster; Lyndon M. | Carlsbad | CA | N/A | N/A |
| Peterson; Todd C. | Chula Vista | CA | N/A | N/A |
| Nasby; Nicole Marie | San Diego | CA | N/A | N/A |
| Brian; Paul | San Diego | CA | N/A | N/A |

US-CL-CURRENT: 435/6, 435/320.1, 435/455, 435/471, 435/489, 435/69.1, 435/91.41,
435/DIG.23, 435/DIG.26, 435/DIG.47, 435/DIG.5, 435/DIG.6, 435/DIG.7, 435/DIG.8,
536/23.1

ABSTRACT:

The present invention relates to a novel drug discovery system for generating and screening molecular diversity. The system provides methods for mixing and cloning genetic materials from a plurality of species of organisms in combinatorial gene expression libraries to generate novel metabolic pathways and classes of compounds. The system also involves methods for pre-screening or identifying for host organisms containing a library that are capable of generating such novel pathways and compounds. The host organisms may be useful in drug screening for particular diseases, and in commercial production of compounds of interest. The methods of the invention are also useful in preserving the genomes of organisms that are known or prospective sources of drugs.

45 Claims, 25 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 21

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | RMC | Drawl Desc | Image |
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☐ 47. Document ID: US 5824309 A

L4: Entry 47 of 63

File: USPT

Oct 20, 1998

US-PAT-NO: 5824309
DOCUMENT-IDENTIFIER: US 5824309 A

TITLE: Recombinant gas vesicles and uses thereof

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| DasSarma; Shiladitya | Amherst | MA | N/A | N/A |
| Morshed; Fazeela | Amherst | MA | N/A | N/A |
| Stuart; Elizabeth | Amherst | MA | N/A | N/A |
| Black; Samuel | Leverett | MA | N/A | N/A |

US-CL-CURRENT: 424/188.1; 424/190.1, 424/201.1, 424/204.1, 424/207.1, 424/208.1,
424/234.1, 514/2, 530/350

ABSTRACT:

The invention features a composition that includes a substantially pure recombinant gas vesicles which have at least one heterologous peptide inserted into at one of their structural proteins. The recombinant gas vesicle, when administered to a mammal, is capable of eliciting antibodies which specifically bind to the heterologous peptide. The heterologous peptide can be any peptide against which one wishes to raise antibodies, e.g., a peptide found in the gp120 protein of human immunodeficiency virus (HIV).

10 Claims, 21 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 12

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | RMK | Draw Desc | Image |
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48. Document ID: US 5807732 A

L4: Entry 48 of 63

File: USPT

Sep 15, 1998

US-PAT-NO: 5783431
DOCUMENT-IDENTIFIER: US 5783431 A

TITLE: Methods for generating and screening novel metabolic pathways

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-------------|-------|----------|---------|
| Peterson; Todd C. | Chula Vista | CA | N/A | N/A |
| Foster; Lyndon M. | Carlsbad | CA | N/A | N/A |
| Brian; Paul | San Diego | CA | N/A | N/A |

US-CL-CURRENT: 435/455; 435/320.1, 435/463, 435/466, 435/471, 435/472, 435/474,
435/489, 536/23.1

ABSTRACT:

The present invention relates to a novel drug discovery system for generating and screening molecular diversity. The system provides methods for mixing and cloning genetic materials from a plurality of species of organisms in combinatorial gene expression libraries to generate novel metabolic pathways and classes of compounds. The system also provides mobilizable combinatorial gene expression libraries that can be transferred from one species of host organism to another for expression. Also provided are specialized cloning vectors for making mobilizable gene expression libraries. The system also involves methods for pre-screening or identifying for host organisms containing a library that are capable of generating such novel pathways and compounds.

25 Claims, 27 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 23

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc | Image |
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☐ 50. Document ID: US 5780709 A

L4: Entry 50 of 63

File: USPT

Jul 14, 1998

US-PAT-NO: 5807732
DOCUMENT-IDENTIFIER: US 5807732 A

TITLE: GDP-L-fucose: .beta.-D-galactoside 2-.alpha.-L-fucosyltransferases, DNA sequences encoding the same, method for producing the same and a method of genotyping a person

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-------------------|-------|----------|---------|
| Lowe; John B. | Ann Arbor | MI | 48105 | N/A |
| Lennon; Gregory | Castro Valley | CA | 94552 | N/A |
| Rouquier; Sylvie | 34000 Montpellier | N/A | N/A | FRX |
| Giorgi; Dominique | 34000 Montpellier | N/A | N/A | FRX |
| Kelly; Robert J. | Trenton | MI | 48183 | N/A |

US-CL-CURRENT: 435/358, 435/193, 435/252.2, 435/252.3, 435/320.1, 435/325, 435/365, 435/69.1, 536/23.2

ABSTRACT:

The gene encoding GDP-L-fucose: .beta.-D-Galactoside 2-.alpha.-L-fucosyltransferase has been cloned, and a mutation in this gene has been found to be responsible for an individual being a non-secretor.

12 Claims, 30 Drawing figures Exemplary Claim Number: 9
Number of Drawing Sheets: 23

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc | Image |
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 49. Document ID: US 5783431 A

L4: Entry 49 of 63

File: USPT

Jul 21, 1998

US-PAT-NO: 5780709

DOCUMENT-IDENTIFIER: US 5780709 A

TITLE: Transgenic maize with increased mannitol content

DATE-ISSUED: July 14, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------------|-------|----------|---------|
| Adams; Thomas R. | North Stonington | CT | N/A | N/A |
| Anderson; Paul C. | West Des Moines | IA | N/A | N/A |
| Daines; Richard J. | Ledyard | CT | N/A | N/A |
| Gordon-Kamm; William | Urbandale | IA | N/A | N/A |
| Kausch; Albert P. | Stonington | CT | N/A | N/A |
| Mann; Michael T. | Mystic | CT | N/A | N/A |
| Orr; Peter M. | Pawcatuck | CT | N/A | N/A |
| Warner; David C. | Wakefield | RI | N/A | N/A |

US-CL-CURRENT: 800/260; 435/419, 435/424, 47/DIG.1, 536/24.1, 536/27.1, 800/275, 800/284, 800/292, 800/293, 800/298, 800/320.1

ABSTRACT:

The present invention provides a method for conferring tolerance or resistance to water or salt stress in a monocot plant, and/or altering the osmoprotectant content of a monocot plant, by introducing a preselected DNA segment into the plant. This invention also relates to the transformed cells and seeds, and to the fertile plants grown from the transformed cells and to their pollen.

24 Claims, 8 Drawing figures Exemplary Claim Number: 1,17,19

Number of Drawing Sheets: 11

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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | NUMC | Draw Desc | Image |
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